**Your Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Your UTEID**: ­­­­­­­­\_\_\_\_\_\_\_\_\_

Date:

Instructions: Answer questions on sheet and bring to class.

**Paper**

Park, H.; Bhattarai, B. R.; Ham, S. W.; Cho, H., Structure-based virtual screening approach to identify novel classes of PTP1B inhibitors. *Eur J Med Chem* **2009,** *44* (8), 3280-4.

**Pre Class Questions**

**Question 1:** What protein does PTP1B dephosphorylate in the liver? In the hypothalamus?

Answer:

**Question 2:** How are Type I and Type II diabetes different? Upon which one do the authors propose PTP1B has an effect?

Answer:

**Question 3:** Define hypoglycemic and hypocholesterolemic?

Answer:

**Question 4:** What are some high glycemic index foods? Low glycemic index?

Answer:

**Question 5:** How many ligands were screened and what program was used?

Answer:

**Question 6:** What is the substrate for the enzyme assays?

Answer:

**Question 7:** What device is used to measure the enzyme activity?

Answer:

**Question 8:** Of their new compounds, which is best – and why?

Answer:

**Question 9:** What was the most difficult thing about the paper to understand?

Answer:

**Question 10:** Could you do any part of this research?

Answer: